GARDNER DENVER®

15-516
2nd Edition
March, 1995

SINGLE ACTING TRIPLEX PUMP

10" STROKE

MODEL

PZKA_D

PARTS LIST

Gardner Denver

MAINTAIN PUMP RELIABILITY AND PERFORMANCE WITH GENUINE GARDNER DENVER PARTS AND SUPPORT SERVICES

Gardner Denver®, AJAX®, and OPI® genuine pump parts are manufactured to original tolerances and designed for optimum dependability. Design and material innovations are the result of years of experience with hundreds of different pump applications. Reliability in materials and quality assurance are incorporated in our genuine replacement parts.

Your authorized Gardner Denver, AJAX and OPI distributor offers all the backup you'll need. A worldwide network of authorized distributors provides the finest product support in the pump industry.

Your local authorized distributor maintains a large inventory of genuine parts and he is backed up for emergency parts by direct access to the Gardner Denver Machinery Inc. Master Distribution Center (MDC) in Memphis, Tennessee.

Your authorized distributor can support your Gardner Denver, AJAX and OPI pump needs with trained parts specialists to assist you in selecting the correct replacement parts.

Authorized distributor service technicians are factory-trained and skilled in pump maintenance and repair. They are ready to respond and assist you by providing fast, expert maintenance and repair services.

For the location of your local authorized Gardner Denver, AJAX and OPI distributor refer to the yellow pages of your phone directory or contact:

Distribution Center:
Gardner Denver Machinery Inc.
Master Distribution Center
5585 East Shelby Drive
Memphis, TN 38141
Phone: (901) 363-6100
Fax: (901) 363-1095

Factory:
Gardner Denver Machinery Inc.
1800 Gardner Expressway
Quincy, IL 62301
Phone: (217) 222-5400
Fax: (217) 223-5897

INSTRUCTIONS FOR ORDERING REPAIR PARTS

When ordering parts, specify Pump MODEL and SERIAL NUMBER (see nameplate on unit). The Serial Number is also stamped on top of the cylinder end of the frame (cradle area).

All orders for Parts should be placed with the nearest authorized distributor.

Where NOT specified, quantity of parts required per pump or unit is one (1); where more than one is required per unit, quantity is indicated in parenthesis. **SPECIFY EXACTLY THE NUMBER OF PARTS REQUIRED.**

DO NOT ORDER BY SETS OR GROUPS.

To determine the Right Hand and Left Hand side of a pump, stand at the power end. Right Hand and Left Hand are indicated in parenthesis following the part name, i.e. (RH) & (LH).

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For Operating and Service Instructions see:

SERVICE MANUAL 15-600

TRIPLEX SINGLE ACTING PUMP - MODEL PZK - 10" STROKE
MATRIX/MENU

NOTICE TO CUSTOMER - To find the construction options for your pump unit, FILL IN THE BALANCE OF LETTERS OR NUMBERS FROM YOUR UNIT NAMEPLATE

	P	Z	K	A		D	A	A			
COLUMN NUMBER:	1	2	3	4	5	6	7	8	9	10	11

FOLLOW THE LINE DOWN AND OVER FROM EACH SPACE THUS FILLED IN TO FIND THE APPROPRIATE CONSTRUCTION OPTION WITH WHICH YOUR MACHINE IS EQUIPPED. THE NUMBER "9" IN ANY COLUMN SPACE INDICATES "NOT APPLICABLE." THE NUMBER "8" IN ANY COLUMN SPACE INDICATES SPECIAL DESIGN - REFER TO FACTORY ORDER TICKET.

COLUMNS 1, 2 & 3 - BASIC FAMILY

COLUMN 4 - TYPE SERVICE-TYPE FLUID END-CONSTRUCTION

A. Drilling Service - 3 Pc. HP Block Steel Piston & Liner

COLUMN 5 - SIZE SELECTIVE

A. 7" C. 6"
B. 6-1/2" D. 5-1/2"

COLUMN 6 - DESIGN VERSION

COLUMN 7 - LINER MATERIAL SELECTIVE

A. Chrome Plated

COLUMN 8 - PISTON TYPE SELECTIVE

A. Steel - Insert Type

COLUMN 9 - SKID TYPE SELECTIVE (Not Shown)

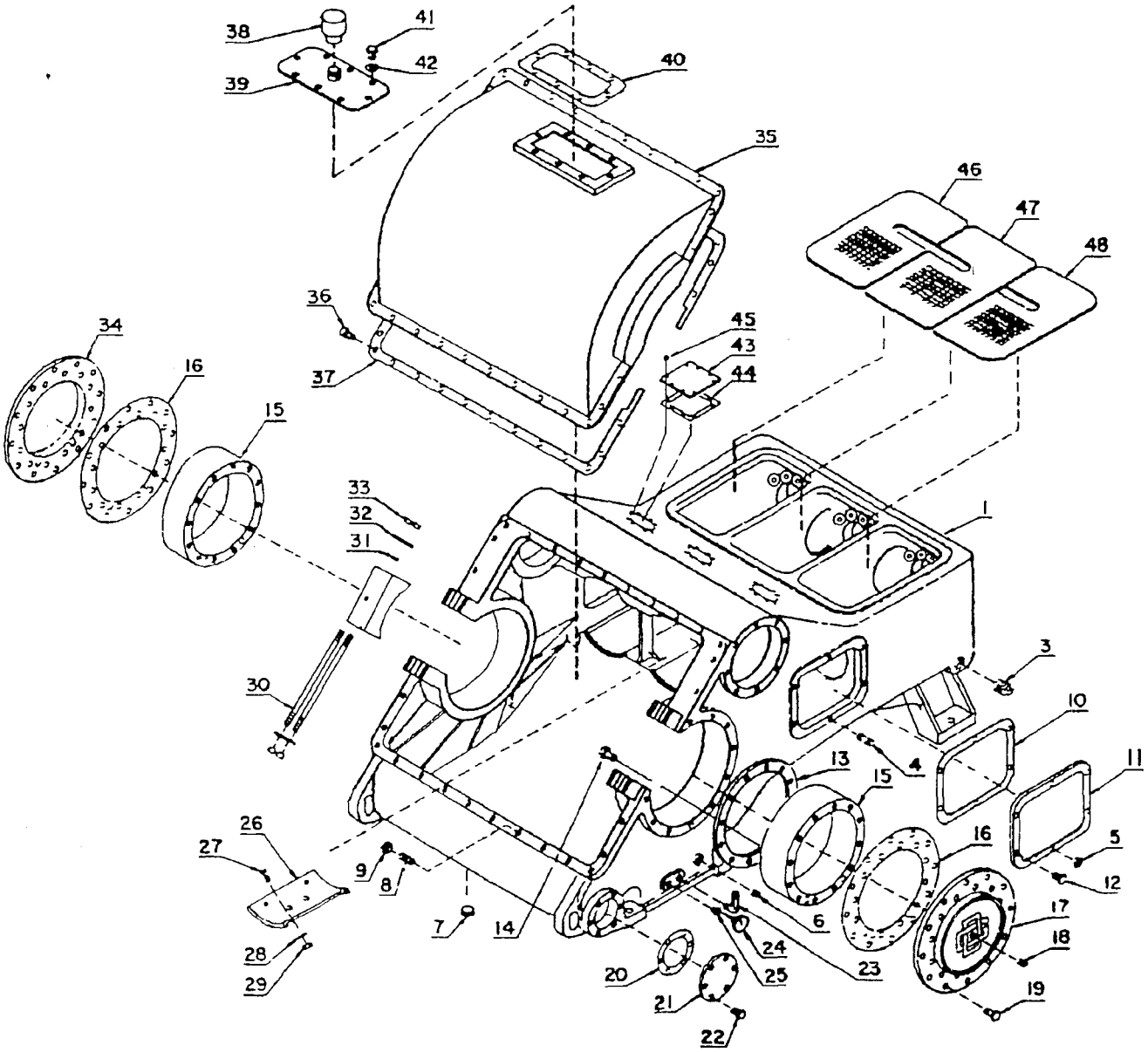
A. Wood (Standard) (PZL76577)
B. Steel (Long) (PZL73613)

COLUMN 10 - FLUID VALVE SELECTIVE

A. Steel-Center Guided Type with Polyurethane Insert
B. Steel-Center Guided Type with Carboxylated Insert

COLUMN 11 - OPTIONAL EQUIPMENT SELECTIVE

FRAME & MISCELLANEOUS PARTS



207PZL797
(Ref. Drawing)

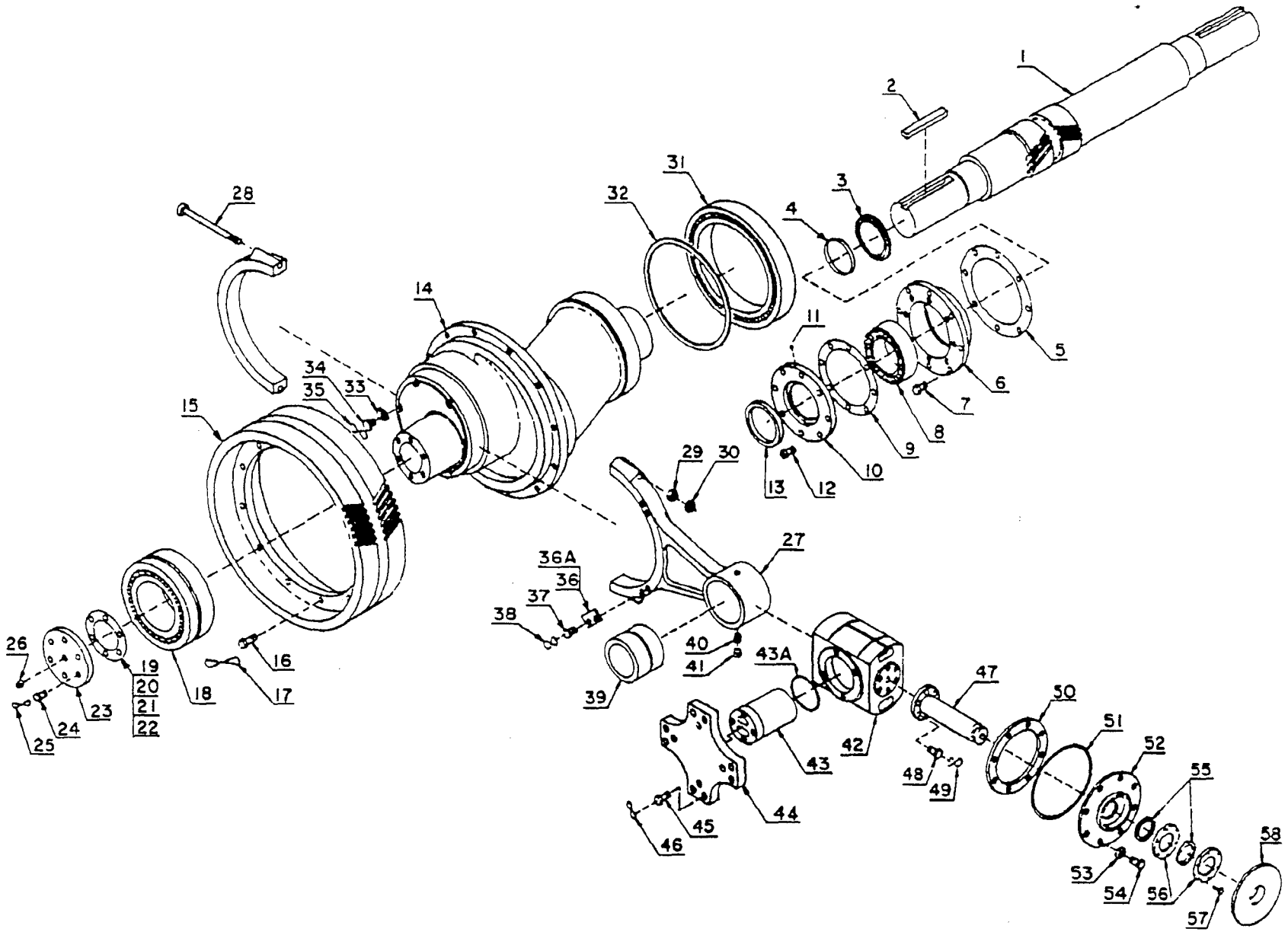
FOR LIST OF PARTS SEE PAGE 5

FRAME & MISCELLANEOUS PARTS

Ref. No.	Name of Part	Qty.	Part No.
1	FRAME ASSEMBLY, Incl. Ref. #3 thru 9	1	200PZL001A
3	PLUG-SqHd PIPE	1	64AA9
4	STUD, Crosshead Inspection Plate	4	79A238
5	NUT, Crosshead Inspection Stud	4	50B5
6	PLUG-SqHd PIPE	1	64A5
7	PLUG-MAGNETIC, Oil Drain	3	66D13
8	STUD, Hood	2	79A75
9	NUT, Hood Stud	2	50B7
10	GASKET, Crosshead Inspection Plate	2	200PZL715
11	PLATE-INSPECTION, Crosshead	2	200PZK052
12	SCREW, Crosshead Inspection Plate	10	655EE060
13	PLATE-BEARING RETAINER	1	202PZL253
14	SCREW, Bearing Retainer Plate	12	75A237
15	HOUSING-BEARING, Eccentric	2	201PZL006
16	GASKET, Bearing Cover Plate	2	200PZL715N
17	PLATE-BEARING COVER (Rigid Side)	1	200PZL315
19	SCREW, Bearing Cover Plate	48	75A52
20	GASKET, Inspection Plate	1	25C1788N
21	PLATE-INSPECTION	1	202FXT052
22	SCREW, Inspection Plate	6	655EF050
23	GAUGE, Oil Level Sight	1	40L17
24	GAUGE-TEMPERATURE	1	27H11
25	BUSHING-PIPE	1	64E2
26	SLIDE-CROSSHEAD	6	200PZL309
27	SCREW, Crosshead Slide to Frame	24	75LM89
28	SEAL-FASTENER	12	60DD35
29	LOCKNUT	24	50V44
30	STUD, Spacer to Frame	4	200PZL110
31	KEY, Spacer to Frame	4	35C24
32	PLATE	4	200PZL247
33	NUT, Spacer to Frame Stud	8	50B37
34	PLATE-BEARING COVER (Floating Side)	1	201PZL247
35	HOOD	1	200PZL053
36	SCREW, Hood to Frame	36	655EF050
37	GASKET, Hood	1	201PZL715
38	BREATHER	1	5C24
39	PLATE-INSPECTION	1	KXG842
40	GASKET, Inpsection Plate	1	25C1818
41	SCREW, Inspection Plate	8	655EF040
42	GASKET, Inspection Plate Screw	8	25F13
43	PLATE-INSPECTION	3	206PZL052
44	GASKET, Inspection Plate	6	25C1839
45	SCREW, Inspection Plate	24	655ED040
46	PLATE-INSPECTION, Piston Rod	1	201PZL052
47	PLATE-INSPECTION, Piston Rod	1	202PZL052
48	PLATE-INSPECTION, Piston Rod	1	203PZL052
*	SCREW, Hood to Frame	4	655EF200

* Not Shown on Drawing.

DRIVE PARTS



206PZL797
(Ref. Drawing)

FOR LIST OF PARTS SEE PAGE 7

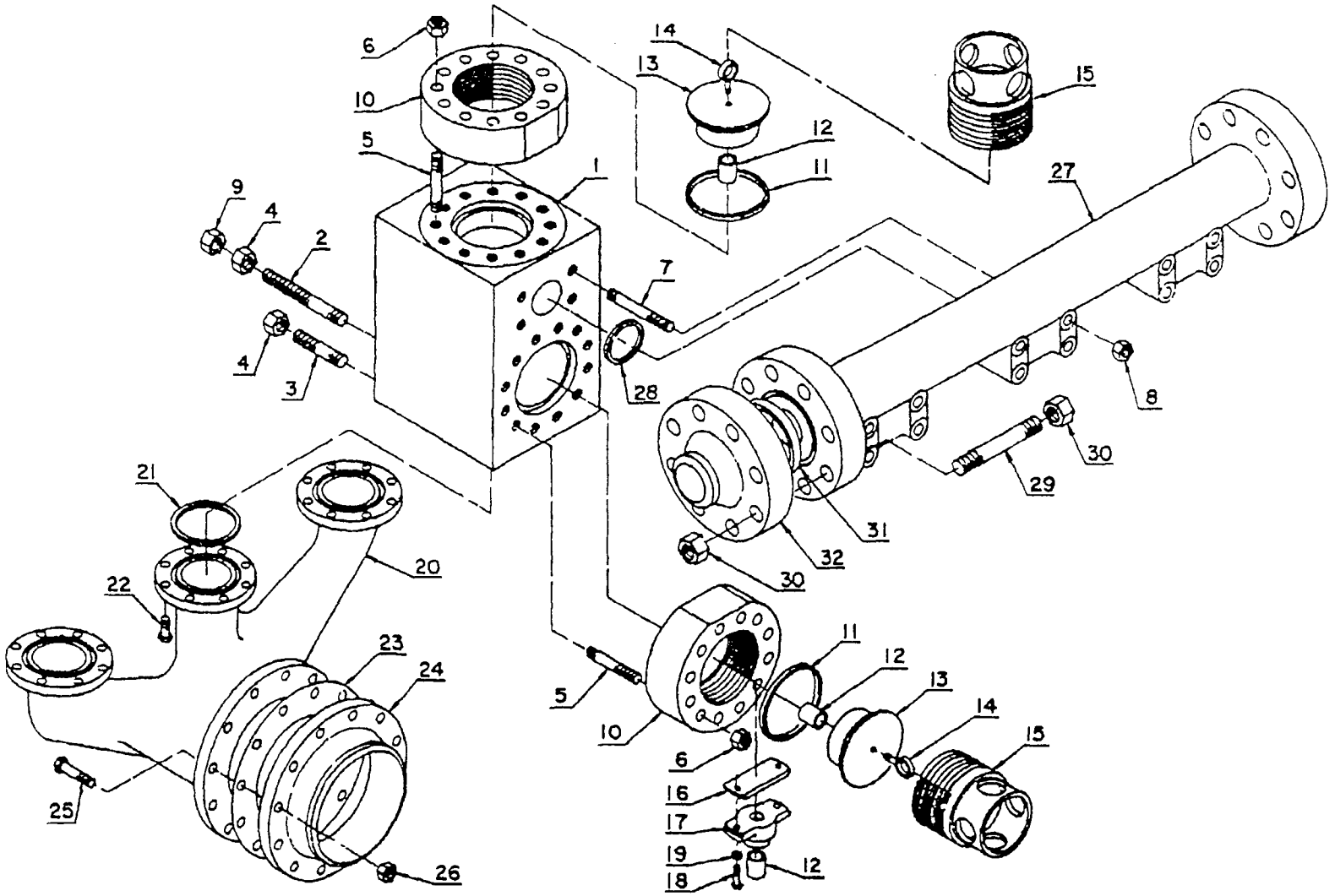
Order by Part Number and Description. Reference Numbers for your convenience only.

DRIVE PARTS

Ref. No.	Name of Part	Qty.	Part No.
1	JACKSHAFT	1	200PZK371
2	KEY-JACKSHAFT	1	200PZL062
3	SPACER, Jackshaft Bearing	2	GXH649
4	SLEEVE-WEAR	2	80M3
5	GASKET, Bearing Housing to Frame	2	25BC11
6	HOUSING-BEARING	2	200PZL006
7	SCREW, Bearing Housig to Frame	16	75A52
8	BEARING-ROLLER, Jackshaft	2	12W73
9	GASKET, Retainer Plate to Bearing Housing	2	25BC12
10	PLATE, Bearing Retainer	2	201PZL253
12	SCREW, Retainer Plate to Bearing Housing	16	655EG070
13	SEAL-OIL	2	60DD13
14	ECCENTRIC	1	200PZK255
15	GEAR-DRIVEN	1	200PZK280
16	SCREW, Gear to Eccentric	12	200PZL655
17	WIRE	144"	97A29
18	BEARING-ROLLER, Eccentric	2	12BA4
19	SHIM (.002)	6	201PZL732
20	SHIM (.005)	6	202PZL732
21	SHIM (.007)	6	203PZL732
22	SHIM (.020)	8	204PZL732
23	PLATE-RETAINER, Eccentric Bearing	2	200PZL168
24	SCREW, Retainer to Eccentric	16	75B148
25	WIRE	48"	97A29
27	CONNECTING ROD, Incl. Ref. #28 & 29	3	200PZL003
28	BOLT-CONNECTING ROD	6	PZ890
29	NUT, Connecting Rod Bolt	6	50B34
30	LOCKNUT, Connecting Rod Bolt	6	50M3
31	BEARING, Connecting Rod to Eccentric	3	12BA6
32	RING-RETAINING, Connecting Rod Bearing	1	74D5
33	PLATE-RETAINING, Bearing to Eccentri	14	1PZ1400
34	SCREW, Bearing to Eccentric	14	655EF05D
35	WIRE	672"	97A29
36	PLATE-RETAINING, Bearing to Connecting Rod	22	PZ1400
36A	PLATE-RETAINING, Bearing to Connecting Rod	2	203PZL253
37	SCREW, Bearing to Connecting Rod	48	75B41
38	WIRE	288"	97A29
39	BEARING-ROLLER, Crosshead Pin	3	12BA5
40	PIN-LOCK	3	PZ838
41	SET SCREW	3	76F10
42	CROSSHEAD	3	200PZL005
43	PIN-CROSSHEAD	3	200PZL189
43A	RING-RETAINING, Bearing	3	200PZL706
44	PLATE-RETAINER, Crosshead Pin	3	206PZL168
45	SCREW, Crosshead Pin Retainer	24	75AG17
46	WIRE	12"	97A29
47	ROD-EXTENSION	3	200PZL839
48	SCREW, Rod to Crosshead	18	PV701
49	WIRE	288"	97A29
50	PLATE-RETAINER, Oil Stop Head to Frame	6	202PZL168
51	GASKET, Oil Stop Head	3	25BC13
52	HEAD-OIL STOP	3	200PZL051
53	GASKET	24	25F9
54	SCREW, Oil Stop Head to Frame	24	655EE080
55	SEAL, Oil Stop Head	6	2011872
56	RING-RETAINER, Oil Stop Head Seal	6	1PV1398
57	SCREW, Seal Retainer to Oil Stop Head	18	75A102
58	BAFFLE-ROD	3	PZ840
*	ADAPTOR, For Rotating Shaft	1	2P01398
*	SCREW, Adaptor to Shaft	2	655EF050

* Not shown on Drawing.

FLUID CYLINDER & MANIFOLDS



208PZL797
(Ref. Drawing)

FOR LIST OF PARTS SEE PAGE 9

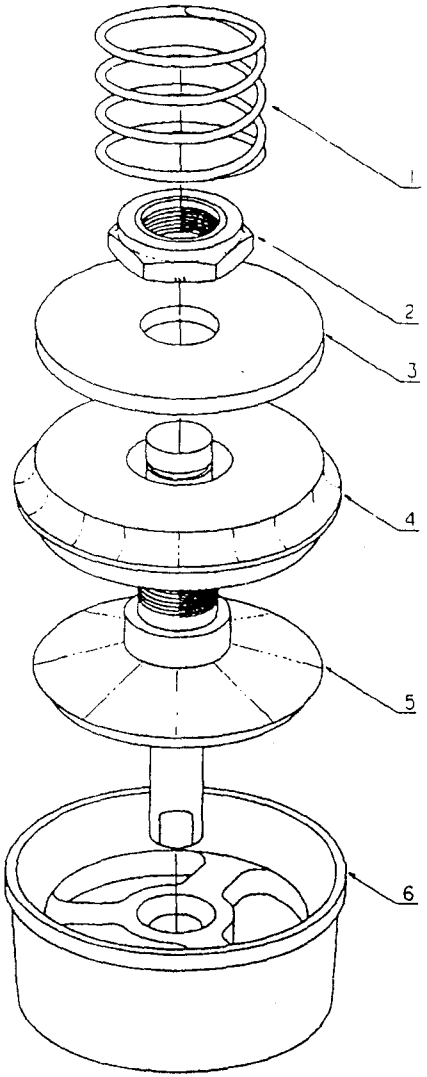
Order by Part Number and Description. erence Numbers for your convenience only.

FLUID CYLINDER & MANIFOLDS

Ref. No.	Name of Part	Qty.	Part No.
1	FLUID CYLINDER ASSEMBLY, Incl. Ref. #2 thru 9	3	202PZL029B
2	STUD (Long), Cylinder to Frame	24	201PZL110
3	STUD (Short), Cylinder to Frame	24	205PZL110
4	NUT, Cylinder to Frame Stud	36	50B36
5	STUD, Valve Cover Ring to Cylinder	72	204PZL110
6	NUT, Valve Cover Ring to Cylinder Stud	72	50B34
7	STUD, Cylinder to Discharge Manifold	12	202PZL110
8	NUT, Cylinder to Discharge Manifold Stud	12	50B34
9	NUT, Liner Clamp	24	50B36
10	RING-VALVE COVER	6	200PZL387
11	GASKET, Valve Cover	6	204PZL715
12	BUSHING, Suction Valve Guide	6	2007674
13	COVER-VALVE	6	200PZL147
14	BOLT-EYE	6	15P5
15	LOCK-COVER	6	200PZL587
16	PLATE-RETAINER	3	2011701
17	VALVE GUIDE ASSEMBLY, Incl. Ref. #12, 16, 18 & 19	3	200PZL483A
18	SCREW, Valve Guide to Retainer Plate	6	655EE06S
19	WASHER-LOCK	6	95W2
20	MANIFOLD-SUCTION	1	200PZL069
21	GASKET, Suction Manifold to Cylinder	3	25G41
22	SCREW, Suction Manifold to Cylinder	24	655EG08N
23	GASKET, Suction Manifold Flange	1	25C814N
24	FLANGE, Suction Flange	1	64CU13
25	SCREW, Suction Flange to Manifold	12	75A150
26	NUT, Suction Flange to Manifold	12	50B9
27	MANIFOLD-DISCHARGE	1	201PZL071
28	GASKET, Discharge Manifold to Cylinder	3	25AL35
29	STUD, Discharge Manifold to Discharge Flange	16	209PZL110
30	NUT, Discharge Manifold to Discharge Flange	32	50AW11
31	GASKET, Discharge Manifold Flange	2	25V24
32	FLANGE-DISCHARGE	1	64EB15
*	FLANGE-BLIND	1	64EB240

* Not Shown on Drawing.

STEEL-FITTED CENTER GUIDED VALVE



C76502

Ref. No.	Name of Part	Qty.	Part No.
	WITH POLYURETHANE INSERT		
1	SPRING	6	78H44
	FLUID VALVE ASSEMBLY, Incl. Ref. #2 thru 5	6	202PZL482A
2	LOCKNUT	6	50V27
3	WASHER-VALVE	6	201PZL279
4	INSERT (Polyurethane)	6	201PZL106
5	VALVE-FLUID	6	202PZL482
6	SEAT-VALVE *	6	202PZL039

* For Valve Seat Puller, See Page 20.

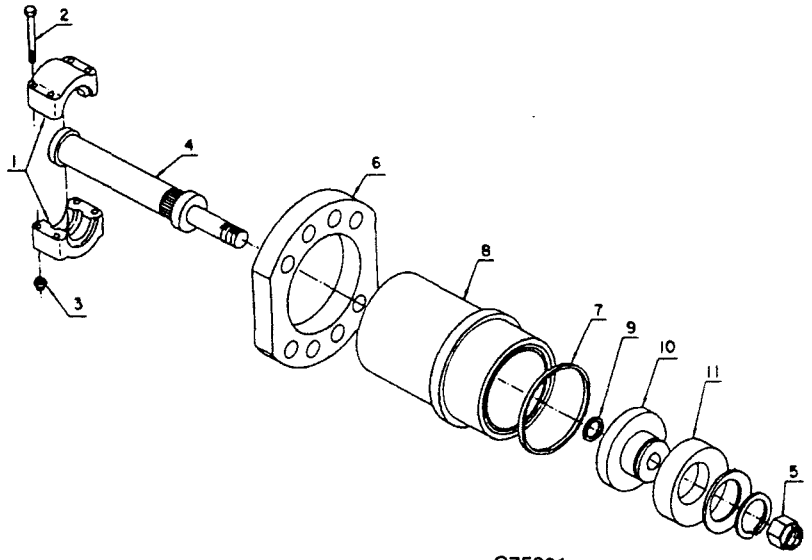
Ref. No.	Name of Part	Qty.	Part No.
	WITH CARBOXYLATED NITRILE INSERT		
1	SPRING	6	78H44
	FLUID VALVE ASSEMBLY, Incl. Ref. #2 thru 5	6	202PZL482B
2	LOCKNUT	6	50V27
3	WASHER-VALVE	6	201PZL279
4	INSERT (Carboxylated)	6	202PZL106
5	VALVE-FLUID	6	202PZL482
6	SEAT-VALVE *	6	202PZL039

* For Valve Seat Puller, See Page 20.

PLUNGER COUPLING & PISTON ROD

Ref. No.	Name of Part	Qty.	Part No.
1	PLUNGER COUPLING ASSEMBLY, INCLUDES		
	Ref #2 & 3	3	200PZL092A
2	SCREW, Coupling	12	655EE200
3	LOCKNUT, Coupling Screw	12	50V44
4	PISTON ROD, Incl. Ref. #5	3	200PZL060
5	LOCKNUT	3	50V14
6	CLAMP-LINER	3	200PZL455
7	GASKET, Liner to Cylinder	3	25AT37
*	WRENCH	1	99L11

* Not shown on Drawing.

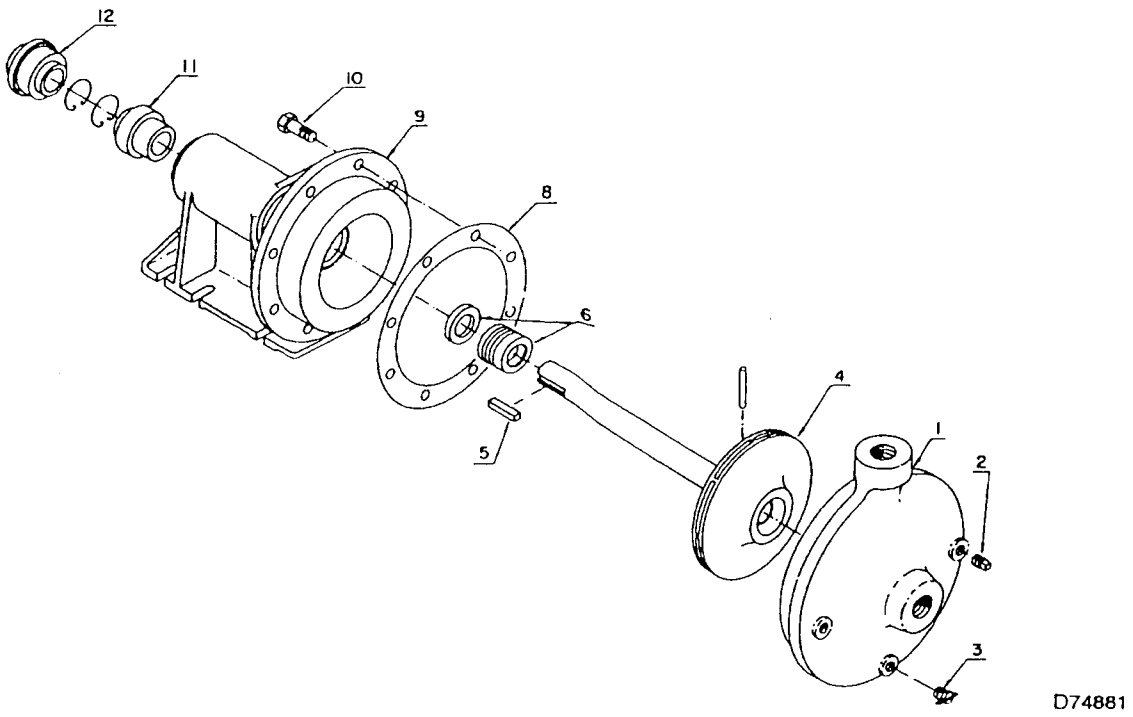


C75081

PISTON & LINER

Ref. No.	Name of Part	Qty.	7" Part No.	6-1/2" Part No.	6" Part No.	5-1/2 Part No.
8	LINER	3	200PZL456	201PZL456	202PZL456	203PZL456
9	O-RING	3	25AH1	25AH1	25AH1	25AH1
10	PISTON ASSEMBLY,					
	Incl. Ref. #9 & 11	3	202TBL045A	201TBL045A	245TBB045A	243TBB045A
11	INSERT GROUP, Incl.					
	Retainer Plates & Rings	3	TBL77586	TBL77585	TBB76028	TBB76026

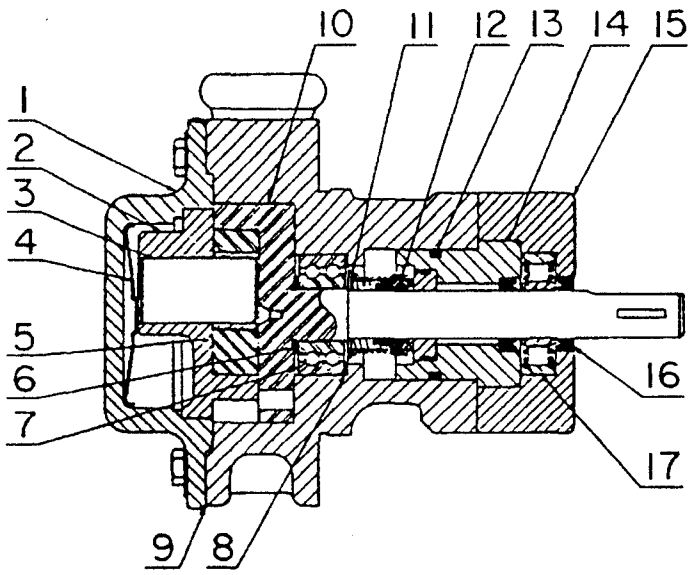
Order by Part Number and Description. Reference Numbers for your convenience only.



PISTON LUBRICATING PUMP

Ref. No.	Name of Part	Qty.	Part No.
	PUMP ASSEMBLY, Includes All Parts Shown		CA122
1	CASING	1	C1K2A1
2	PLUG–SqHd PIPE	2	64AA6
3	COCK, Drain	1	90C31
4	IMPELLER ASSEMBLY, SHAFT & PIN	1	C1K1A1A
5	KEY	1	35B4
6	SEAL	1	60BT11
8	GASKET	1	25D212
9	FRAME	1	C1H4A2
10	SCREW	8	75A130
11	BEARING–BALL (Inner) Includes Retaining Ring	1	12AK3
12	BEARING–BALL (Outer) Includes Retaining Ring	1	12AK3

Order by Part Number and Description. Reference Numbers for your convenience only.



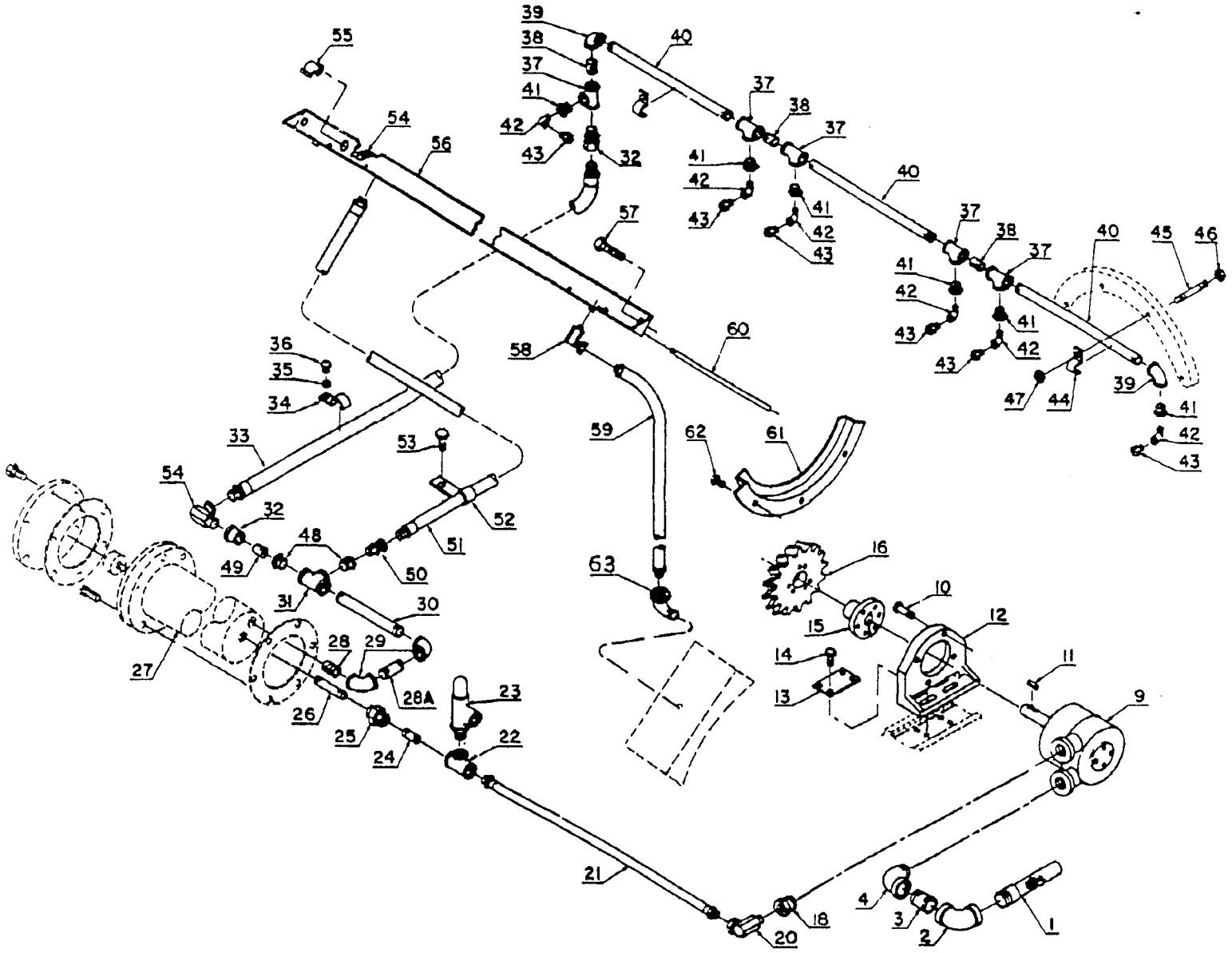
OIL PUMP

Ref. No.	Name of Part	Qty.	Part No.
	OIL PUMP - COMPLETE	1	201PAH188
1	COVER	1	2010987
2	CARRIER-IDLER	1	2010988
3	PIN-IDLER	1	2010989
4	SPRING	1	2010990
5	IDLER ASSEMBLY	1	2010991
6	WASHER	1	2010992
7	BEARING-BALL	1	2010993
8	SHIM-Bearing	1	2010994
9	GASKET, Cover	1	2109006
10	ROTOR	1	2010995
11	WASHER	1	2010996
12	SEAL, Mechanical	1	2109003
13	O-RING	1	2109004
14	PLUG-HOUSING	1	2010997
15	HOUSING-BEARING	1	2109005
16	SEAL, Bearing Housing	1	2010998
17	BEARING-ROLLER	1	2010999
*	VENT PLUG-SUCTION	1	2109000
*	VENT PLUG-DISCHARGE	1	2109001
*	WASHER, Vent Plug	2	2109002

* Not Shown on Drawing.

Note: Part Numbers listed only for those parts normally furnished for repair.

OIL PUMP & PIPING



205PZL797
(Ref. Drawing)

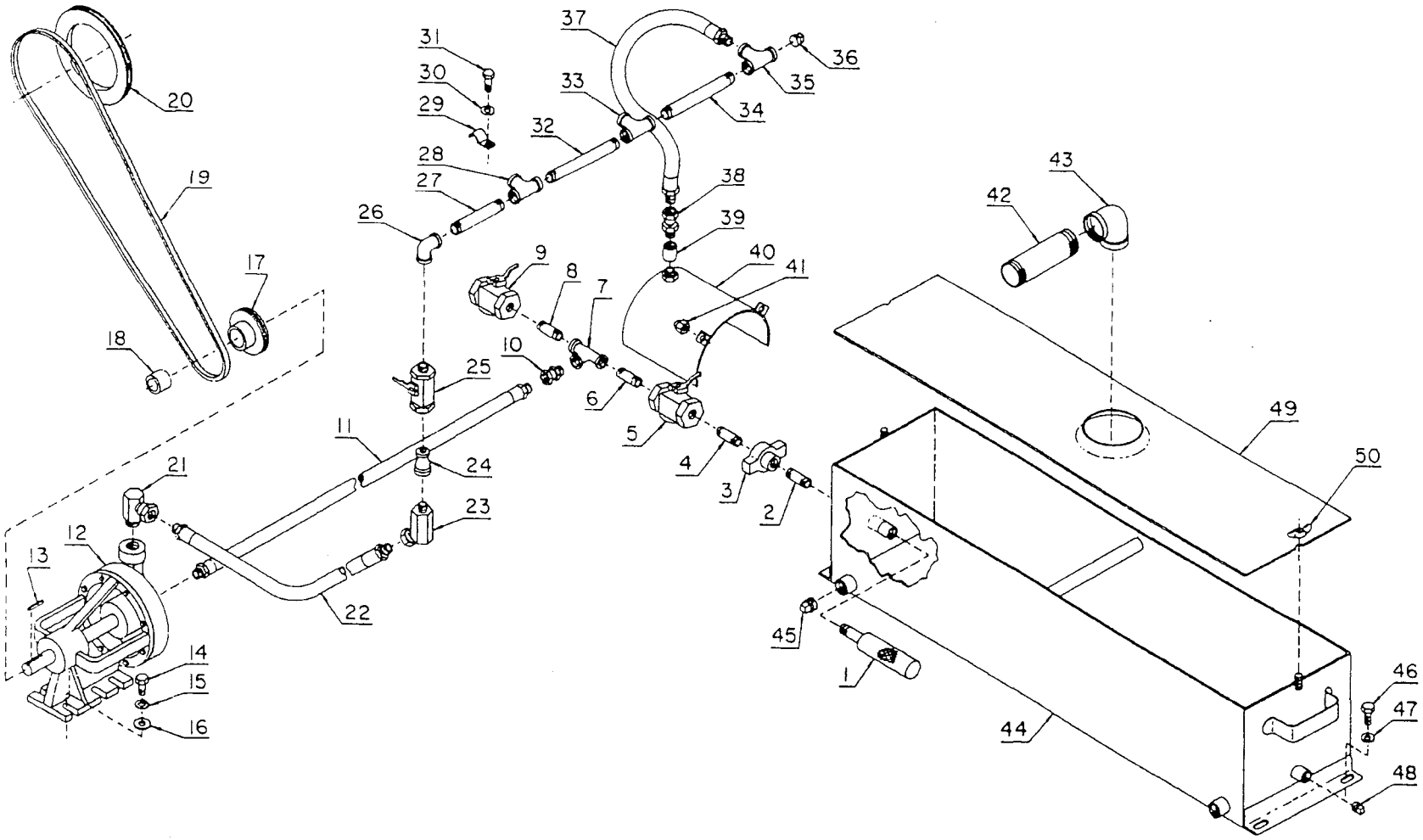
FOR LIST OF PARTS SEE PAGE 15

OIL PUMP & PIPING

Ref. No.	Name of Part	Qty.	Part No.
1	SCREEN-OIL	1	3WAJ511
2	ELBOW-PIPE	1	64C8
3	NIPPLE-PIPE	1	63U24X16
4	ELBOW-PIPE, Reducing	1	64U4
9	PUMP-OIL*	1	201PAH188
10	SCREW	2	75A35N
10A	SCREW	2	75A102N
11	KEY	1	35D2
12	ADAPTOR, Oil Pump	1	200PZL170
13	PLATE, Oil Pump to Frame	1	PY526
14	SCREW, Adaptor to Frame	4	655ED05D
15	BUSHING-HUB, Gear, Incl. Ref. #11	1	22F12SD
16	GEAR-DRIVEN, Oil Pump	1	201PZL280
*	WIRE, Adaptor to Frame Screw	24"	97A29
	(Pump Discharge to Filter)		
20	ADAPTOR-HOSE	1	29Q17
21	HYDRAULIC HOSE ASSEMBLY	1	29R21
22	TEE-PIPE	1	64G7
23	VALVE-LIQUID RELIEF	1	90Q62
24	NIPPLE-PIPE	1	63U12X16
25	UNION-STRAIGHT	1	64Z10
26	NIPPLE-PIPE	1	63U12X34
27	FILTER-OIL**	1	26C18
	(Filter to Crosshead Spray)		
28	NIPPLE-PIPE	1	63U12X13
28A	NIPPLE-PIPE	1	63U12X22
29	ELBOW-PIPE	2	64C5
30	NIPPLE-PIPE	1	63U12X80
31	TEE-PIPE	1	64G7
32	REDUCER-PIPE	1	64N25
33	HYDRAULIC HOSE ASSEMBLY	1	29Z26
34	CLAMP, Hose	2	98H4
35	WASHER, Clamp	2	95B1
36	SCREW, Hose Clamp	2	655EC030
37	TEE-PIPE	5	64G6
38	NIPPLE-PIPE	3	63F21
39	ELBOW-PIPE	2	64C4
40	NIPPLE-PIPE	3	63N8X160
41	BUSHING-PIPE	6	64E23
42	ELBOW-PIPE STREET	6	64X1
43	NOZZLE	6	2009982
44	CLAMP, Pipe	2	200PZL654
45	STUD	2	79H1
46	NUT	2	50B5
47	LOCKNUT	2	50V44
	(Filter Tee to Trough)		
48	BUSHING-PIPE	3	64E95
49	NIPPLE-PIPE	1	63V8X11
50	ADAPTOR-HOSE	2	29Q6
51	HYDRAULIC HOSE ASSEMBLY	1	29Z81
52	CLAMP, Hose to Frame	5	PZ1301
53	SCREW, Clamp	1	655ED020
54	ADAPTOR-HOSE	2	29Q17
55	ELBOW-PIPE	1	64C5
	(Oil Trough to Main Bearing)		
56	TROUGH, Oil Feed	1	201PZL125
57	SCREW, Trough to Frame	2	655EF040
58	ADAPTOR-HOSE	2	29Q54
59	HYDRAULIC HOSE ASSEMBLY	2	29Z35
60	NIPPLE-PIPE, Trough to Jackshaft	2	63AJ6X130
61	TROUGH, Jackshaft Bearing Oil	2	202PZL125
62	SCREW, Jackshaft Bearing Oil Trough	6	655EE03D
63	ELBOW-PIPE STREET, Hose to Bearing	2	64D4
*	WIRE	96"	97A29
*	BUSHING-PIPE	1	64E36

Ø Not Shown on Drawing.
* For Oil Pump and Component Parts See Page 13
** For Oil Filter and Component Parts See Page 19

PISTON LUBRICATING PIPING



D74738

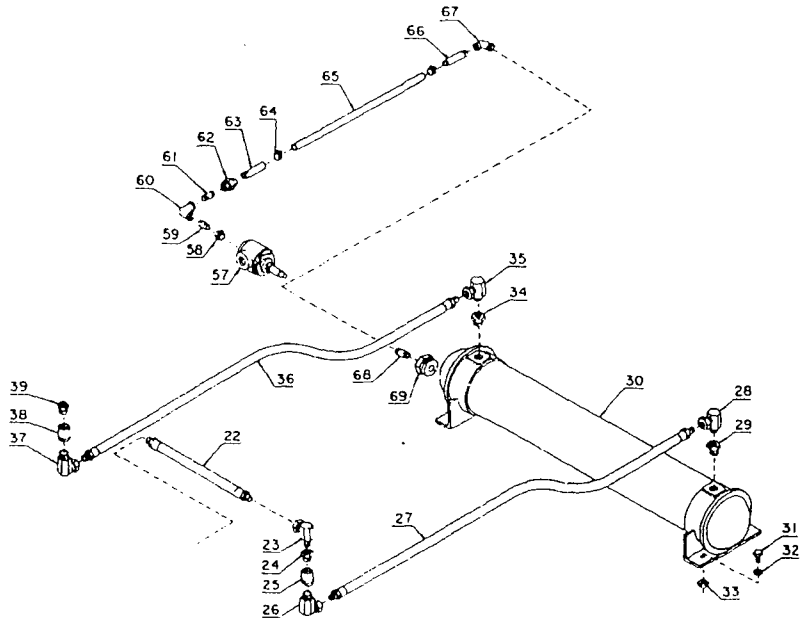
FOR LIST OF PARTS SEE PAGE 17

PISTON LUBRICATING PIPING

Ref. No.	Name of Part	Qty.	Part No.
	(Lube Oil Tank to Pump Group)		
1	SCREEN-OIL	1	2WAJ511
2	NIPPLE-PIPE	1	63H25
3	UNION-HAMMER, Wing	1	64EB1
4	NIPPLE-PIPE	1	63H25
5	VALVE	1	90A36
6	NIPPLE-PIPE	1	63H25
7	TEE-PIPE	1	64G8G
8	NIPPLE-PIPE	1	63H25
9	VALVE	1	90A36
10	ADAPTOR-HOSE	1	29Q9
11	HYDRAULIC HOSE ASSEMBLY	1	2009270
Ø	NIPPLE-PIPE	1	63H2
Ø	ELBOW-PIPE	1	64C6
12	PUMP PISTON LUBRICATING,* Incl. Ref. #13	1	CA122
13	KEY	1	35B4
14	SCREW, Pump to Skid	4	655ED040
15	WASHER-LOCK, Pump to Skid	4	95B3
16	WASHER, Pump to Skid	4	95A3
17	SHEAVE-DRIVEN	1	73K1A30
18	BUSHING-HUB, Driven Sheave	1	22E16B
19	BELT	1	13C77
20	AUXILIARY SHEAVE ASSEMBLY	1	2006102
Ø	SET SCREW, Sheave	2	76F30
	(Pump to Liner Group)		
21	ADAPTOR-HOSE	1	29Q10
22	HYDRAULIC HOSE ASSEMBLY	1	2009247
23	ADAPTOR-HOSE	1	29Q27
24	REDUCER-PIPE	1	64N3
25	VALVE	1	90A25
26	ELBOW-PIPE	1	64C5
27	NIPPLE-PIPE	1	63G12
28	TEE-PIPE	1	64P39
29	CLAMP-PIPE	2	98H5
30	WASHER	2	95B3
31	SCREW	2	75A68
32	NIPPLE-PIPE	1	63N12X144
33	TEE-PIPE	1	64P39
34	NIPPLE-PIPE	1	63N12X144
35	TEE-PIPE	1	64P39
36	PLUG-SqHd PIPE	1	64A5
37	HYDRAULIC HOSE ASSEMBLY	3	29R32
38	ADAPTOR-HOSE	3	29Q83
39	COUPLING-PIPE	3	64BK3
40	BAFFLE	3	200PZJ840
41	NUT-ACORN	6	50Q30
	(Frame to Lube Oil Tank Group)		
42	NIPPLE-PIPE	1	63L9
43	ELBOW-PIPE	1	64C9
44	NIPPLE-PIPE	2	63AJ32X134
45	CLAMP-HOSE	2	29B32
46	HOSE	1	29Z186
47	UNION-HAMMER, Wing	1	2009242
48	NIPPLE-PIPE	1	63L9
49	TANK-LUBE OIL	1	2012639
50	PLUG-SqHd PIPE	2	64A7
51	SCREW, Lube Tank to Skid	4	655EE040
52	WASHER	4	95A5
53	PLUG-SqHd PIPE	1	64A6
54	COVER-LUBE OIL TANK	1	200PZH249
55	NUT-WING	2	50H1
56	PLUG-PIPE	1	64A9
Ø	NIPPLE-PIPE	1	63L1
Ø	ELBOW-PIPE	1	64V9

Ø Not Shown on Drawing.

* For Piston Lubricating Pump and Components Parts See Page 12.



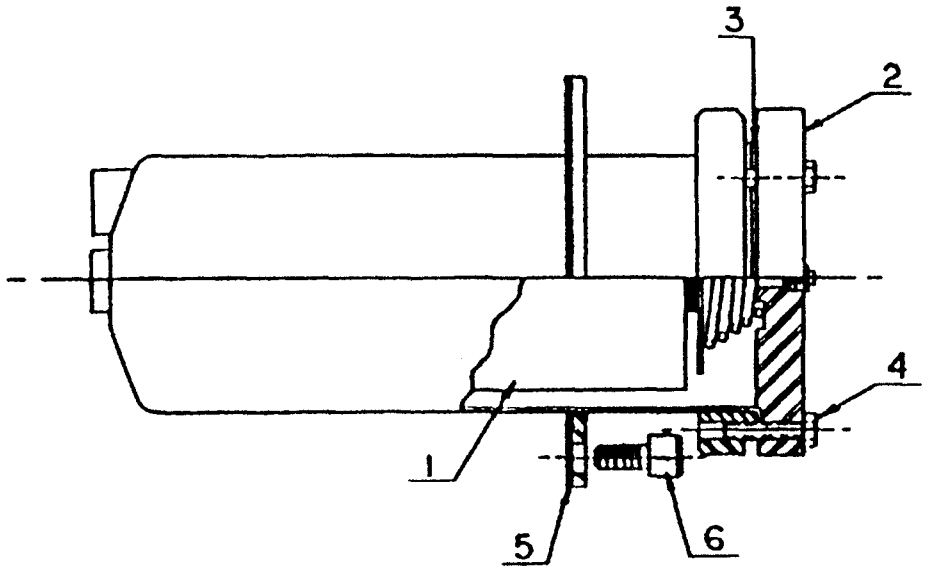
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HEAT EXCHANGER GROUP
(OPTIONAL EQUIPMENT)

Ref. No.	Name of Part	Qty.	Part No.
22	HYDRAULIC HOSE	28"	R5F
23	ADAPTOR-HOSE	1	29Q17
24	BUSHING-PIPE	1	64E16
25	CONNECTOR, Frame	1	78AUX113
26	ADAPTOR-HOSE	1	29Q10
27	HYDRAULIC HOSE	75"	R5G
28	ADAPTOR-HOSE	1	29Q10
29	BUSHING-PIPE	1	64E11
30	HEAT EXCHANGER	1	2013457
31	SCREW, Heat Exchanger to Skid	4	655EE060
32	WASHER-LOCK	4	95B5
33	NUT	4	50B5
34	BUSHING-PIPE	1	64E11
35	ADAPTOR-HOSE	1	29Q10
36	HYDRAULIC HOSE	75"	R5G
37	ADAPTOR-HOSE	1	29Q10
38	CONNECTOR, Frame	1	78AUX113
39	BUSHING-PIPE	1	64E16
57	VALVE-THERMOSTAT	1	90K165
58	BUSHING-PIPE	1	64E14
59	NIPPLE-PIPE	1	63F21
60	ELBOW-PIPE	1	64C4
61	NIPPLE-PIPE	1	63F21
62	UNION	1	64Z3
63	NIPPLE-PIPE	1	63AJ8X40
64	CLAMP-HOSE	2	29B31
65	HOSE-OIL	40"	R14G
66	NIPPLE-PIPE	1	63AJ8X40
67	ELBOW-PIPE	1	64C4
68	NIPPLE-PIPE	1	63F21
69	BUSHING	1	64E29
*	HOSE COUPLING	2	29Q158
*	HOSE COUPLING	2	29Z83
*	PLUG-ZINC, Protective	1	2008076
*	NIPPLE-PIPE	1	63U12X13
*	ELBOW-PIPE	1	64C62
*	NIPPLE-PIPE	1	63U12X40
*	HOSE COUPLING	2	29Z83

* Not Shown on Drawing.

Order by Part Number and Description. Reference Numbers for your convenience only.

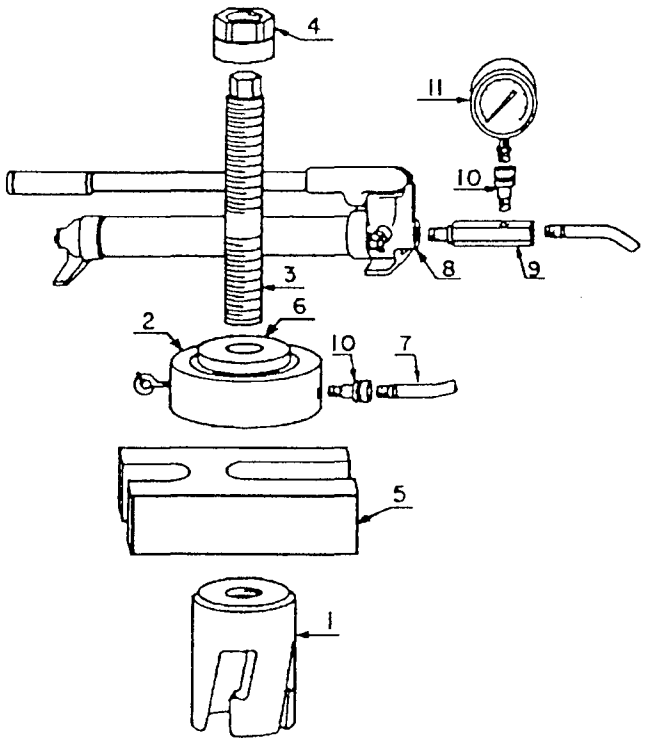


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OIL FILTER

Ref. No.	Name of Part	Qty.	Part No.
	OIL FILTER ASSEMBLY, Incl. Ref. No. 1 thru 4	1	26C18
1	ELEMENT ASSEMBLY, Incl. Ref. No. 3	1	5E30
2	COVER	1	2109770
3	GASKET	1	2109771
4	SCREW, COVER	4	75A54
5	GASKET, Filter to Frame	1	25C1788N
6	SCREW-SoHd CAP, Filter to Frame	6	75P95

Order by Part Number and Description. Reference Numbers for your convenience only.



VALVE SEAT PULLER
CENTER GUIDED TYPE
(OPTIONAL EQUIPMENT)

Ref. No.	Name of Part	Qty.	Part No.
1	HEAD (Not Included with 10015 Puller)	1	100E16
	VALVE SEAT PULLER ASSEMBLY, Incl. Ref. #2 thru 11	1	100E15
2	HYDRAULIC JACK	1	2117043
3	CENTER STEM	1	2117044
4	CENTER STEM NUT	1	2117045
5	PULLER H BAR BASE	1	2117046
6	CENTER BUSHING #5	1	2117047
7	HYDRAULIC HOSE	1	2117049
8	HYDRAULIC PUMP	1	2117050
9	GAUGE ADAPTOR	1	2117051
10	GAUGE COUPLER	2	2117053
11	GAUGE 170 TON	1	2117054
*	CARRYING CASE	1	2117055

Order by Part Number and Description. Reference Numbers for your convenience only.

OPTIONAL EQUIPMENT

Ref. No.	Name of Part	Qty.	Part No.
	BAR, Valve Cover Tightening	1	62L62
	PIN, Valve Cover Tightening Bar	1	2009526
	HYDRILL DAMPENER (K10-5000)	1	200PZL622
	HOSE, For Charging Hydrill Dampener	1	200PZL127
	TOOL, Piston Rod Nut Removal	1	200PZL074
	PRESSURE GAUGE GROUP, Incl. Next 3 Items	1	PZL75283
	GAUGE (0 - 6000 PSI)	1	27P70
	PIPE NIPPLE	1	63V32X60
	PIPE ELBOW	1	64EB241
	RELIEF VALVE GROUP, Incl. Next 4 Items	1	PZL75284
	RELIEF VALVE (1000 PSI - 5000 PSI)	1	201559
	PIPE NIPPLE	1	63V48X60
	PIPE ELBOW	1	64EB242
	ST PIPE ELBOW	1	64D14
	BLOCK SUPPORT & DISCHARGE CROSS GROUP, Incl. Next 2 Items	1	PZJ75343
	BLOCK GROUP	1	PZL74939
	SUPPORT GROUP	2	PZJ75344